Sonocaddie V300

Golf GPS

User's Guide

Sonostar Inc.

V.3.0.0.7_E

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Contents

Welcome 4
Warnings 4
Cautions 4
Chapter 1. Introduction 5
1.1 Features 5
1.2 Display 6
1.2.1 Press "Course Layout button" to switch the "Hole layout" and "course info" screens. 6
1.2.2 Symbol Description 7
1.2.3 Status Area 7
1.2.4 Battery level 7
Chapter 2. Getting started 8
2.1 Charging 8
2.2 Carrying Sonocaddie on the Golf Course 9
2.2.1 Belt Attachment 9
2.2.2 Other Carrying Options 9
Chapter 3. Before starting a Game 10
3.1 Power ON/OFF 10
3.2 Main Menu 10
3.2.1 GPS 10
3.2.2 Settings 11
Chapter 4. Course Management 12
4.1 Before downloading course information, you need to log in to the membership page at www.sonocaddie.com. 12
4.1.1 Login or Join Sonocaddie Membership 12
4.1.2 Install "V300 Software" in Your Computer 12
4.1.3 Connect the USB Cable between Sonocaddie V300 and Computer 13
4.2 Download Course 14
4.2.1 Manage data in V300 15
Chapter 5. Starting a game 17
5.1 Start with Existing Courses 17
5.1.1 Select a Course 17
5.1.2 Select a Hole 17
5.2 Course Management for V300 device 18
5.2.1 Create a New Course 18
5.2.2 Delete a Course 18

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

5.2.3 To Rename a Course 19
5.3 Adding New Reference Points 19
5.3.1 Mapping a hole 19
5.3.2 Editing a Course layout 19
5.4 Reference Points next to Green 20
5.5 Reference Points on Green 20
5.6 Editing Reference Points 21
5.7 Delete Reference Points 21
5.8 Track your game 22
5.8.1 Shot Track 22
5.8.2 Auto track 22
5.8.3 Track review 23
5.9 Green Close-Up Function 24
5.10 Mark Function 24
5.11 Scorecard Function 25
5.11.1 Enter Scores 26
5.11.2 Review Scorecard and View Analysis 26
Appendices 27
A. Specification 27
B. System Requirement 28
C. Description Abbreviations 29
D. FAQs 30
Regulatory Agency Compliance 32

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Welcome

Welcome to the Sonocaddie guide. This guide has been designed to provide you with everything you need to know about operating your Sonocaddie. Please read the user guide thoroughly in order to understand the features of the Sonocaddie.
Note that there are multiple ways to navigate and use the various Sonocaddie functions. Sonocaddie is very intuitive to use, so feel free to use which ever way you find to be the easiest.

Warnings

Please read the guidelines below, since failure to do so may result in mis-use of the equipment and may be dangerous or illegal.
The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes which could affect the accuracy and performance of all GPS equipment.

- **Operating**
  - **Sonocaddie may take at least 10~15 minutes to receive satellite signals the first time you turn it on. It may take longer to receive signals if it has been off for 4 or more hours, or if you traveled more than 100 miles away from the last location where you used your Sonocaddie.**
  - **Sonocaddie performs best under clear sky. Furthermore, 6 satellite signals should be sought, so it might be necessary to wait for these to be registered.**
  - Should you experience any problems with your Sonocaddie (e.g. malfunction/damage) please contact Sonocaddie Customer Service at www.Sonocaddie.com. Do not attempt any repairs on your own as this may void the warranty.
  - The USB cable provided is solely for the use of Sonocaddie devices (see the accessory list). Do not connect any other cable for data transfer as this could damage the data port (I/O port).
  - A full battery charge may take 4 hours. We recommend not charging over 8 hours.

Cautions

- **Golf course**
  - Sonocaddie should not be used while driving any vehicle including golf carts. Always place Sonocaddie in a secure place to avoid any impact which could cause damage to it.
- **GPS reception**
  - Sonocaddie has a built-in GPS antenna. This antenna should face upward to gain the best signals and should not be covered with anything as this may affect the quality of reception. **GPS reception might be affected by the following environmental factors such as rain, dense clouds, fog, solar flares, high voltage electricity, cellular phone towers, etc.**
  - Coverage/reception levels may be adversely affected by forests and/or buildings. Optimal usage will be gained in wide open areas.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Packing List

- Sonocaddie V300
- Mini USB Cable
- Rechargeable Battery
- User's Guide
- Belt Clip
- AC Charger Adaptor
- Carry Pouch

The Serial Number

Chapter 1. Introduction

1.1 Features

Course layout button

Tips:

Press this button to switch between the "Hole layout" and "Course inf" screens.

Power button/ Brightness button

Tip:

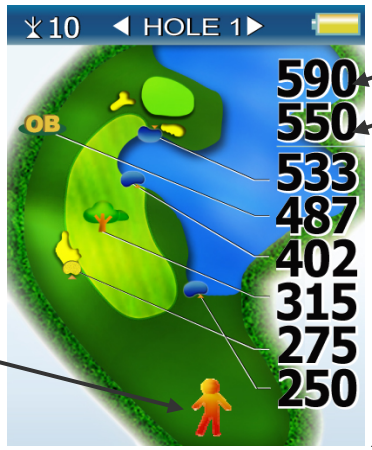
Press this button to adjust brightness levels.

Tips: Pressing the "ESC" button will always bring you to back to the previous screen. Press "ESC" button for 3 seconds to back to the "Main" menu directly.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

1.2 Display

1.2.1 Press "Course Layout button" to switch the "Hole layout" and "course info" screens.



Back of Green

Front of Green

Distance for each reference point. All yardages will change as you move around the fairway.

"Walking golfer" icon will follow your position around the fairway.

Fig: Hole layout screen

Important!

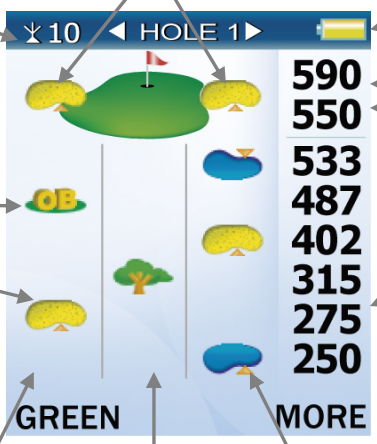
"Walking golfer" and "Track" functions only available with "Course layout" data.

This icon indicated that the course with course layout. You can check the data first on Sonocaddie website at www.sonocaddie.com.

Side of Green

Satellite signal

Battery level



Distance from front / back of the green

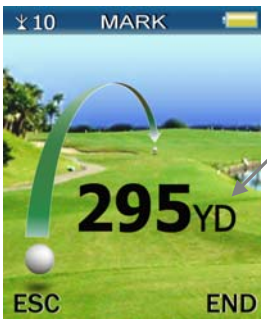
Reference point on the fairway

Distance for each reference point

Fig: Course info screen

Rough/Fairway Left **Fairway** **Rough/Fairway Right**

Press "Mark" button or enter "Mark" function from "Main" screen to know your shot distance.



Distance unit

YD= Yard

M= Meter

ML= Mile

KM= Kilometer

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

1.2.2 Symbol Description

Status explanation	Symbol
Bunker Front/ Back	
Water Front/ Back (includes major water hazards)	
＊ 2nd Green Front/ 2nd Green Back	
Creek (includes: river, ditch and stream)	
Trap	
Tree (includes: shrubbery and forest)	
Hills	
Lay-up area	
Out of Bounds (OB)	
Dogleg Left/ Right	
Rock	
Delete	

＊**Note:** For some courses that have two greens on one hole these icons provide distance for the extra green.

1.2.3 Status Area

- **Satellite signal**

Satellite signal	**0~2**	**3~5**	**5~6**	**6~8**	**8~10**	**>10**
Accuracy	None	Poor	Fair	Good	Very good	Optimal

Important!
To achieve optimum accuracy it is advised that Sonocaddie performs best under clear sky conditions. Furthermore, 6 satellite signals should be sought, so it might be necessary to wait for these to be registered.

1.2.4 Battery level

Quickly confirm remaining battery level with the on-screen battery gauge.

Scale of power			
Conditions	Full	Empty	No battery ＊

＊ Note: This symbol indicates that: 1.The unit is without battery. 2. The battery insert incorrectly. 3. The battery is defect originally.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Chapter 2. Getting started

2.1 Charging

Please insert the supplied rechargeable battery correctly as below. A full battery charge may take up to 4 hours and we recommend that you do not charge over 8 hours.

＊ Note:

1. Please charge the battery at least 4 hours for first time use.
2. Please remove the battery if you will not use the unit for a long period of time to avoid the battery leaking and corrosive the battery case.

There are 3 ways to charge the battery through the 110~240v wall outlet, USB port, or 12v car adapter (optional).

1) Through the wall plug. Insert the mini-USB connector of the supplied wall plug into the mini-USB slot located at the bottom of the unit. Then plug the wall charger into an AC wall outlet.

2) Connect Sonocaddie V300 with the USB cable to your PC.

Important!

The battery will charge, even with the Sonocaddie turned off. You will see the battery gauge shown on the screen.

Turning on the Backlight feature will reduce the expected battery life.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

2.2 Carrying Sonocaddie on the Golf Course

2.2.1 Belt Attachment

1. Place the clip on to your trouser belt.
2. Slide the hook into the clip until you hear a '**clip**' sound.
3. To remove the Sonocaddie, press down the top clip button and slide Sonocaddie upward out of the clip.

2.2.2 Other Carrying Options

The clip can also be attached to different things.
For example, it can be clipped onto the golf bag.
Make sure that the clip has been properly fixed for maximum security.

Sonocaddie can be mounted to the golf cart with optional golf cart mounts (visit Sonocaddie website for more details). Make sure that the hook has been properly fixed for maximum security.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Chapter 3. Before starting a Game

3.1 Power ON/OFF

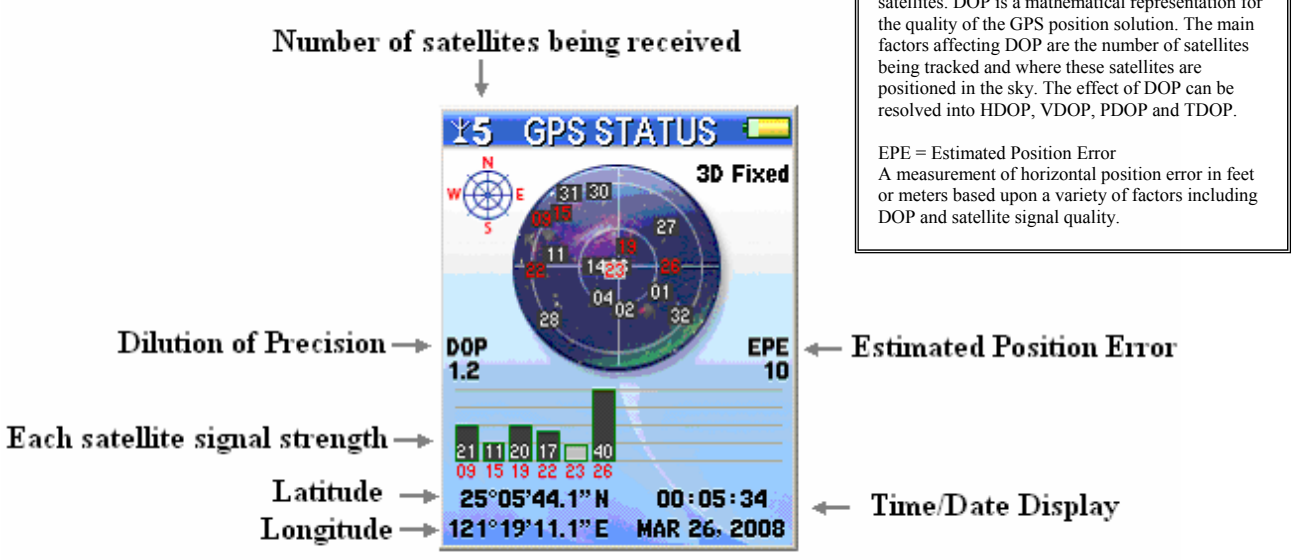
Power ON: Press the "**Power button**" for at least 3 seconds to turn the Sonocaddie on. Users will see a welcome page.
Power OFF: To switch Sonocaddie off, simply press the "**Power button**" for at least 3 seconds or select "**OFF**" function from the "**MAIN**" menu and then press "**YES**".

> **Important!**
> Please allow approximately 5~10 minutes when turning the Sonocaddie on to search for GPS signals (make sure to be in an open-sky area).

3.2 Main Menu

3.2.1 GPS : Provides the GPS reception status information.

> DOP = Dilution of Precision
> Dilution of precision (DOP) is a measure of the quality of the GPS data being received from the satellites. DOP is a mathematical representation for the quality of the GPS position solution. The main factors affecting DOP are the number of satellites being tracked and where these satellites are positioned in the sky. The effect of DOP can be resolved into HDOP, VDOP, PDOP and TDOP.
>
> EPE = Estimated Position Error
> A measurement of horizontal position error in feet or meters based upon a variety of factors including DOP and satellite signal quality.

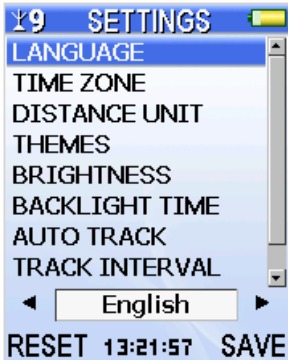


Note: Lower DOP numbers provide better accuracy.

> **Important !**
> To achieve optimum accuracy please be aware that Sonocaddie performs best under clear sky conditions. Since at least 6 satellite signals should be sought, it might be necessary to wait for these to be registered.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

3.2.2 Settings



There are 9 selections in SETTINGS:

1. **LANGUAGE**: English / Traditional Chinese/ Simplified Chinese
2. **TIME ZONE:** Please choose your correct time zone
3. **DISTANCE UNIT**: YARD / METER/ MILE/ KILOMETER
4. **THEMES**: BLUE / PURPLE/ GREEN/ ORANGE
5. **BRIGHTNESS**: OFF/1/2/3/4/5
6. **BACKLIGHT TIME**: ALWAYS/ 15sec/ 30sec/ 60sec
7. **AUTO TRACK**: ON /OFF
8. **TRACK INTERVAL**: 10sec / 20sec/ 30sec
9. **SCORECARD**: NORMAL / PRO
10. **RESET:** Back to default settings

※ Please be sure to press "SAVE" after completing all settings.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Chapter 4. Course Management

4.1 Before downloading course information, you need to log in to the membership page at www.sonocaddie.com.

4.1.1 Login or Join Sonocaddie Membership

Membership account is required to download course data. If you are not a member, please link to "Member" on V300 Software or go to V300 website, "Member" page at www.sonocaddie.com to join the membership in advance.

Important!
Serial Number (S/N) is required to join Sonocaddie V300 membership.

4.1.2 Install "V300 Software" in Your Computer

This application software is used for you to access and download course information and manage your V300 personalized course folder. Please install it from enclosed CD or from website at www.sonocaddie.com.

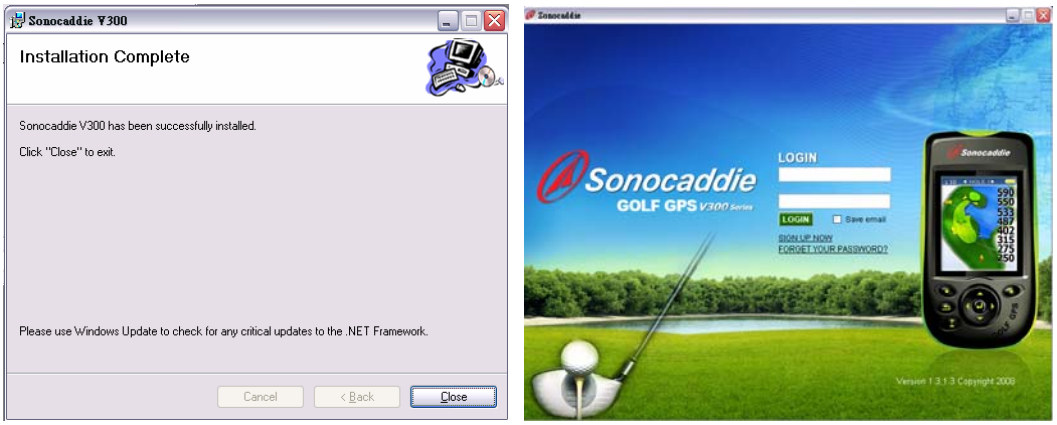
System Support: Microsoft Windows 2000/ XP/ Vista

1. Press "Sonocaddie V300" button to install V300 software.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Sonocaddie www.sonocaddie.com
Sonocaddie V300
Welcome to the Sonocaddie V300 Setup Wizard
The installer will guide you through the steps required to install Sonocaddie V300 on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >
Sonocaddie V300
Select Installation Folder
The installer will install Sonocaddie V300 to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\Sonocaddie V300\
Browse...
Disk Cost...
Install Sonocaddie V300 for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

2. After completing installation, please press "Close" to finish. A Sonocaddie shortcut will appear on your desktop. Double clicking the Sonocaddie shortcut icon will start "Sonocaddie V300" software.



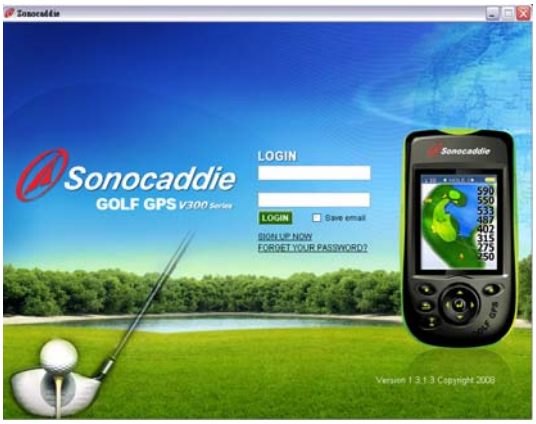
4.1.3 Connect the USB Cable between Sonocaddie V300 and Computer

Step 1. Turn on Sonocaddie V300.
Step 2. Connect the USB Cable between Sonocaddie V300 and Computer. You will see the message "USB cable connected. Enable USB link now? " on the Sonocaddie display. Please press "YES" (right soft key) to link the unit with your computer.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

4.2 Download Course

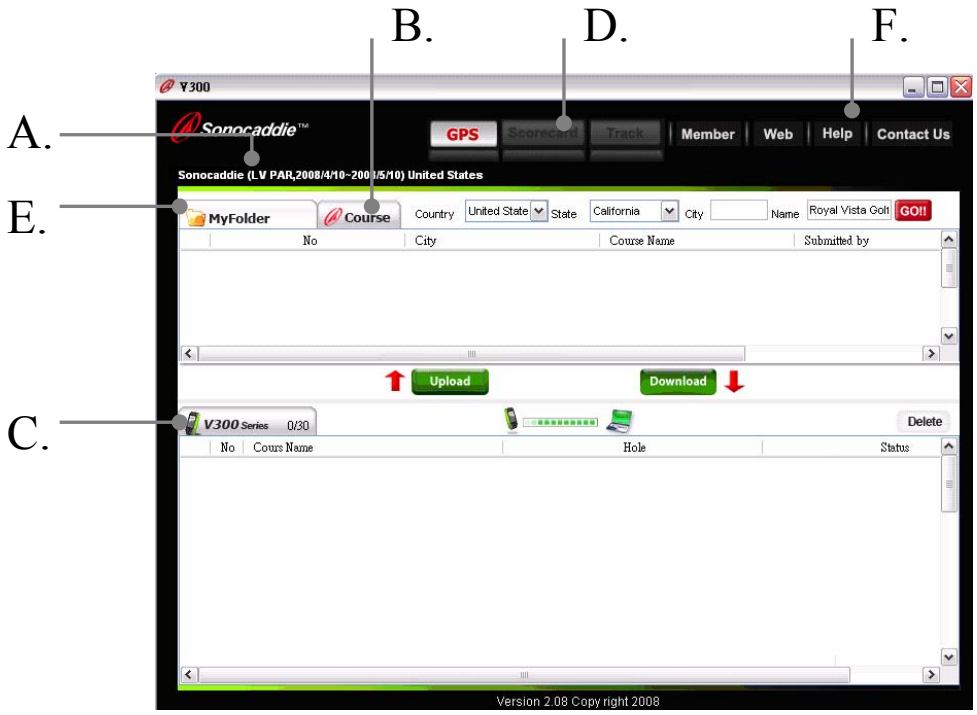
Step1. Log in membership to enter V300 Software.



Important !

Internet connection is required to log in V300 Software to access course data.

It is required to fill in the email account and password to run V300 Software. They are same with the account you registered your member account.



A. Information bar: User's name/ Type of Membership Plan/ Membership Valid Period/ Registered Country

B. Course Tab

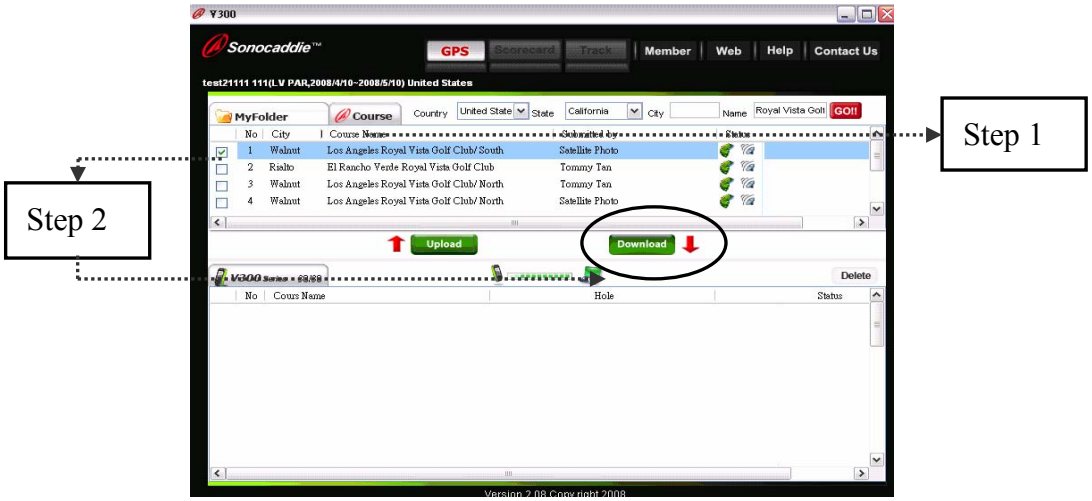
(links to Sonocaddie database) for downloading course data.

Steps to download course data:

Step 1. Please select the Country and State, enter the Course Name then press "GO" for the course you want.

Step 2. Check one or more box beside each course you wish to download, and press "Download ↓ " button to transfer the course(s) to your Sonocaddie V300.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.



This picture indicates this specific golf course has scorecard information.

This picture indicates this specific golf course has GPS information.

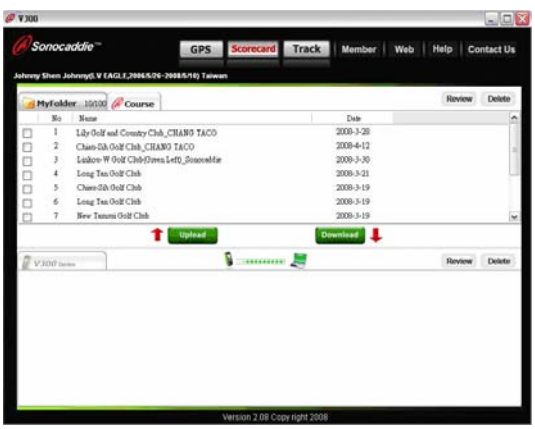
This picture indicates this specific golf course has color layout.

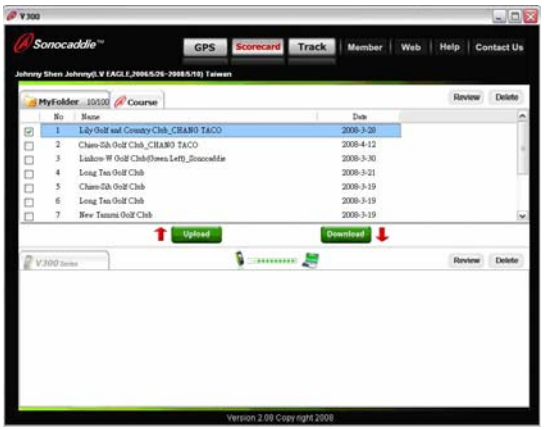
4.2.1 Manage data in V300

C. V300 Tab:

When linking with V300 device, the course data/ scorecard/ track record(s) on the device is ready to be uploaded, deleted, renamed and reviewed (scorecard record only).

-Upload: You can upload the course GPS (up to 30 courses), Scorecard (up to 100 records) and Track (up to 100 records) data to "My Folder" tab.
-Delete: Tick one or more box of data, press "Delete" button to remove the data.
-Rename: Double click the data name to rename.
-Review (scorecard only)**:** Review scores and analysis of your round(s).

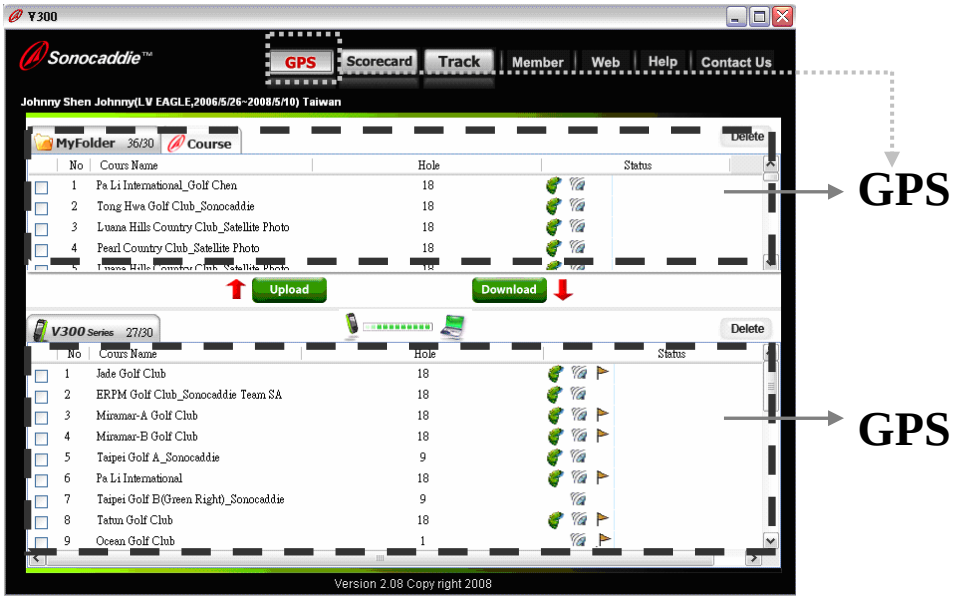




To review scorecard record, please press "Scorecard" button on the top of the display, then tick the record you want to review. Just press "Review" button, and the scores and analysis will show on the display for you to refer your game. You could review the scorecard record both in "V300" tab and "My Folder" tab.

Note: Please do not disconnect the cable between V300 device and PC when transferring.

D. GPS/ Track/ Scorecard buttons on the top of the display:
These buttons bring up the course data from your Sonocaddie V300 unit. You can switch to review the track, GPS and Scorecard data simply by pressing the buttons.



Note: Please do not disconnect the cable between V300 device and PC when transferring.

Important!
When you stay in the "V300" tab and press the top button "GPS", the "My Folder" tab will also switch to GPS data. In other words, when pressing "Scorecard" button on the, both "V300" and "My Folder" tab will switch to scorecard data in the same time.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

E. My Folder Tab:

This is the personal folder to manage your data. You can upload the course GPS (30 courses), Scorecard (100 records) and Track (100 records) data from your V300 unit to this folder. (Par level user has NO access to "My Folder" unless the membership upgraded.)

Important!
It is not possible to download course(s) from the Sonocaddie web site to "My Folder" directly.
The downloading process should go through your Sonocaddie V300 device. From the V300 you can load courses into "My Folder"

F. More functions:
Pressing each button, it will link you to the Sonocaddie V300 website for further information and assistance.

Member Web Help Contact Us

Chapter 5. Starting a game

5.1 Start with Existing Courses

5.1.1 Select a Course

Select "**PLAY**" from "**Main**" menu to enter course list and select the appropriate course using the 5-way key or the right soft key. When the desired course is selected, press "select" on the 5-way key or press "**MORE**" (right soft key) and select "**PLAY**". The "SELECT HOLE" page will pop up.

Important!
You must select a course and a hole first. Then, SCORECARD function and course layout function can be used.

5.1.2 Select a Hole

There are several ways to select a hole. From the "SELECT HOLE" screen, navigate to the desired hole and press the "select" (center of 5-way key) or "SELECT" (right soft key). From the "HOLE VIEW" screen you can press the "hole selection" key

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

(see figure) to bring up the "SELECT HOLE" screen, and then use the 5-way keys to select a hole. From the "HOLE VIEW" screen you can also scroll left and right through all holes using the left-right buttons on the 5-way key. This also can be used to scroll through close-up views of the greens.

.

5.2 Course Management for V300 device

5.2.1 Create a New Course

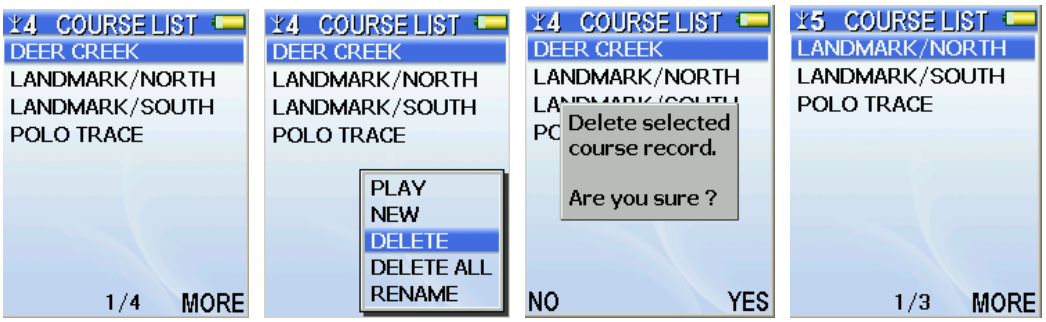
Select "**MAP NEW**" from the "**Main**" menu or press "**MORE"** to select "**NEW**" after you entered the course list.

Key in the course name by using the 5-way key. Then please press "Record" to save it. The new course you created will show on the course list right away.

5.2.2 Delete a Course

From the "COURSE LIST" screen, select a course name, and press "**MORE**" (right soft key). Select "**DELETE/DELETE ALL**" to delete the selected course or to delete all courses at once. When the confirmation dialog box opens, press "**YES**" (right soft key) to confirm or "**NO**" (left soft key) to go back. Once "**YES**" is selected, the course information and all reference points will be deleted permanently.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.



5.2.3 To Rename a Course

From the "COURSE LIST" screen, select the course you wish to rename. Press "**MORE**" (right soft key) and select "**RENAME**" from the pop-up list using the 5-way key. To rename, use the 5-way key to edit the course name.

5.3 Adding New Reference Points

Users can record reference points on the course while playing.

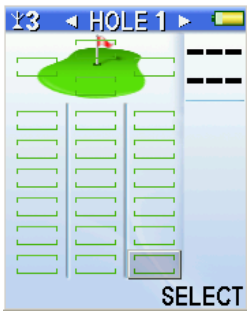
5.3.1 Mapping a hole

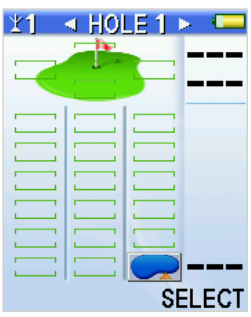
Bring up the "Course info" screen with the "Course Layout Button". Standing at the reference points which you would like to add, press "**EDIT**" (right soft key), and navigate the cursor to the appropriate location on the screen. Press **"SELECT"** (right soft key) go to the "ICON" screen. Choose the correct icon for the new reference point, and while standing still, press "RECORD" (right soft key). Press "Esc" key to complete the mapping and return to the Course Layout Screen.

5.3.2 Editing a Course layout

From the "Hole layout" screen, bring up the "Course Info" screen with the "Course Layout" button. Similarly to 5.3.1, standing at the reference points which you would like to add. Press "**MORE**", and press **"EDIT"** to add reference points as 4.3.1.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.



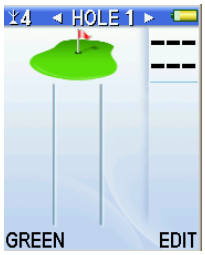


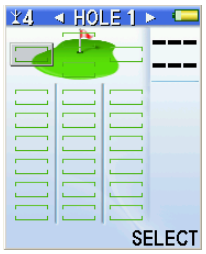
Important!
Sonocaddie performs best under clear sky. Furthermore, 6 satellite signals should be sought, it might be necessary to wait for these to be registered.

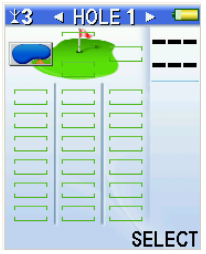
Important!
Each row only allows one reference point. **Maximum of 10 reference points per hole**-(on/off fairway, Green Front/Back and next to Green) can be recorded. It is suggested that each reference point should be recorded based on the order of course features for that hole. All reference points' distance will disappear when standing within 5 yards. To record a reference point, the player must stand still for 5 seconds at the reference point before pressing "**Record**". The yardage will show "0" right away when you press record.

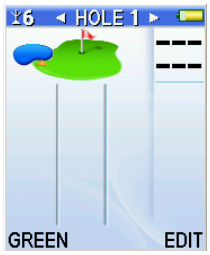
5.4 Reference Points next to Green

To add icons to the side of the green, (for example, add a water icon to the left of the green) press "**SELECT**" (right soft key) and then choose from the icons.









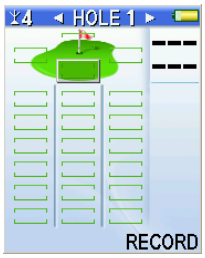
Important!
These two reference points do not provide any distance yardage.
Under the course layout function, reference points next to the Green would not be displayed.

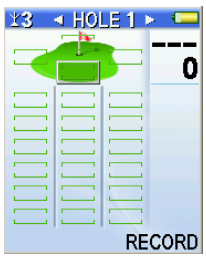
5.5 Reference Points on Green

To add Green reference points, stand at the front or back of the green, select the Green front or back icon and press "**RECORD**" to record the coordinates.

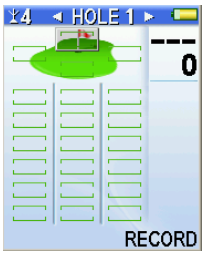
This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

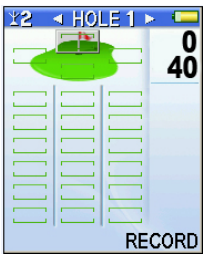
Add Green Front:





Add Green Back:





5.6 Editing Reference Points

Users can edit existing reference points according to their preference while playing on the course.

If the icon on the screen of the actual course is incorrect and needs to be changed, stand at the reference point, press "**EDIT**" and choose the particular reference point icon that requires editing. Then press "**SELECT**" and choose one icon from the icon page. Press "**RECORD**" and the icon is now changed to the new icon.

If the Sonocaddie shows an incorrect distance to the course feature, users can update the new coordinates by standing at the reference point, pressing "**EDIT**" and choosing the particular reference point icon that requires updating. Press "**SELECT**" to go to the icon page. Highlight the same icon on the icon page, and press "**RECORD**". The distance is now corrected permanently.

Important!
To record a reference point the player must stand still for 5 seconds at the reference point before pressing "RECORD". The yardage will show "0" right away when you press record.

5.7 Delete Reference Points

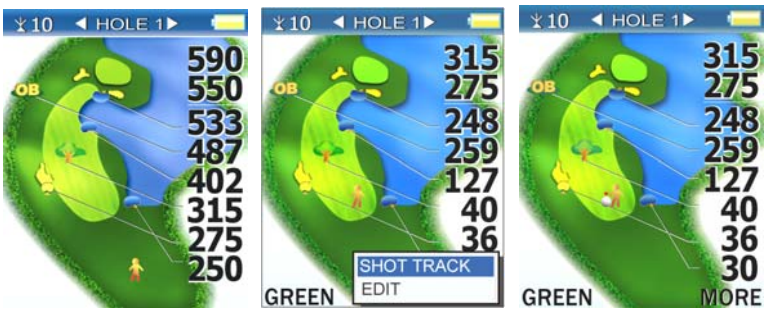
Press "**EDIT**" (right soft key) and then highlight the particular reference point icon that requires erasing by using the 5-way key. Press "**SELECT**" to go to the icon page. Highlight the "DELETE icon" and press "**DELETE**" from the 12 icons' menu.The reference point is now deleted.
Once erased, the previous reference point icon and yardage distance will disappear from the screen. (Note: the same procedure should be followed to erase reference point icons on both sides of green)

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

5.8 Track your game

5.8.1 Shot Track

This function works only when the course has a course layout and is used to record every shot on the course. After hitting a shot, proceed to the ball and press the "**SHOT TRACK**" button. Repeat the same process for every shot to record the information in the track record. To review the round, enter "**TRACK REVIEW**" function on the "**MAIN**" menu to review each shot on the course.



Important!
To use SHOT TRACK, you must be located on a particular hole and the Golfer Icon must be visible on the display for that hole.

5.8.2 Auto track

To use the AUTO TRACK function, please follow the steps below.

Step1. In the "SETTINGS" menu Set "**AUTO TRACK**" to "**ON**".
Step2. Select the course you are about to play.
Step3. Once Sonocaddie begins to receive satellite signals, the track function will start when you begin your round.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Important!
To use AUTO TRACK, you must be located on a particular hole and the Golfer Icon must be visible on the display for that hole.

- AUTO TRACK can only track one round of golf per golf course per day

Important!
Selecting different track intervals will affect the recording time.

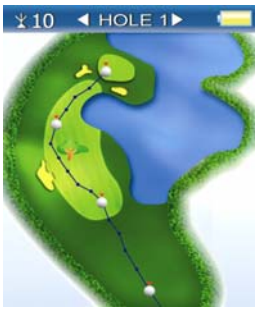
TRACK INTERVAL	10 SECONDS	20 SECONDS	30 SECOND
Recording Period	5 hours	11 hours	16 hours

5.8.3 Track review

The TRACK REVIEW function allows you to review both your own route and the results of each shot you played. When "AUTO TRACK" is "ON", you will be able to view your actual route on the course. When you use the "SHOT TRACK" function after each shot during the round, you will be able to see each shot played. All information is recorded and saved for you to review, and plot your strategy for your next round!

Auto track on only

Shot track on only



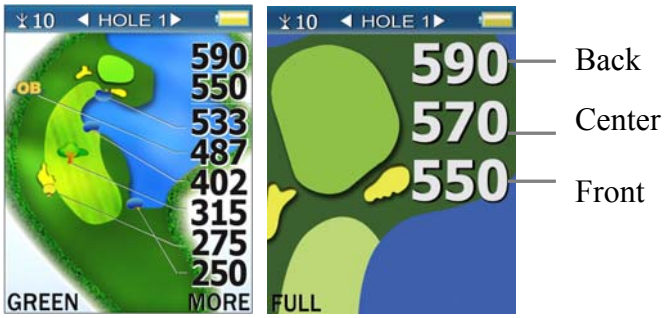
Auto track on & Shot track on

Important!
If the course layout has been deleted, you will not be able to review the track record unless you reinstall the course layout.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

5.9 Green Close-Up Function

At any time during your round, press "**GREEN**" (left soft key) to get a close-up view of the putting green. You will see the distances to the Front, Center and Back of the green. Press the "**FULL**" (left soft key) to go back to the previous screen.



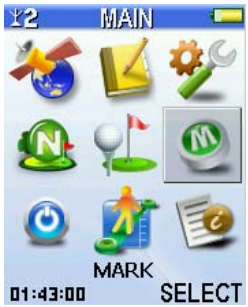
5.10 Mark Function

The Mark function is used to measure distance of each shot. After hitting a shot, press the '**START**' button and proceed to the ball. The distance figure stops after pressing '**END**'. The display then shows the distance of the actual shot.

> **Important!**
> The user does not have to travel in a straight line to the ball. The distance shown on the display is always the straight line distance from where the '**START**' button was pressed.

The Mark Function can be used anytime, except when the 'Green View' function is activated. This can be done in two ways:

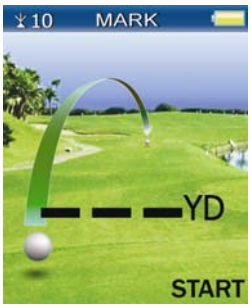
1. Press '**MARK**' button (Right side key) directly.
2. Select **MARK** Function icon on the '**MAIN**' page.

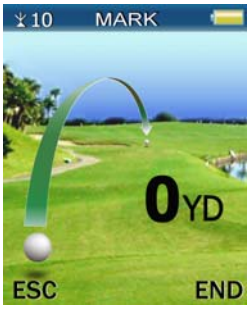


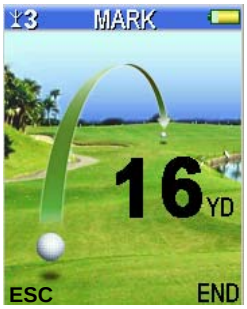
> **Important!**
> This function can only be activated when there is GPS reception.

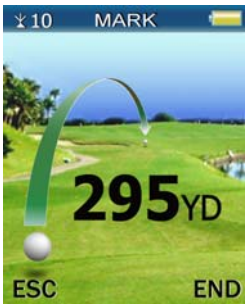
To begin, press "**START**" (right soft key) at the point from where the shot is taken. The screen will show '0' on the display. When you move toward the ball position, the yardage number will increase according to your location.

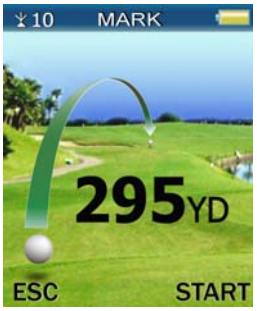
This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.











Once reaching the ball position, the the distance of the shot is shown. Pressing "**END**" (right soft key) locks in the number until "**START**" is pressed again.

5.11 Scorecard Function

Sonocaddie provides a scorecard function that allows you to score your personal round and provides an analysis of your round…

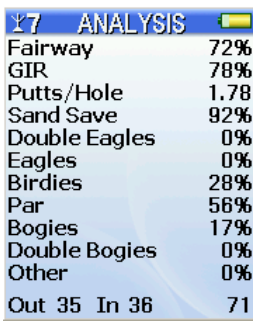
There are 2 types of scorecard functions, "NORMAL" and "PRO". Normal keeps track of total strokes only, and adds all strokes to provide scores for both front nine (out) and back nine (in).

To choose either "**NORMAL**" or "**PRO**", go to the "**SETTINGS**" screen, scroll down to "SCORECARD" and choose either "NORMAL" or "PRO" with the left-right 5-way key. Press "SAVE" (right soft key) to save the setting..

In the "PRO" scorecard you can enter Par (P), Strokes (S), Putts (Pt) in numeric form, and Faiway Hit (Fw) and Sand Save (Sd) as either Y (yes) or N (no). Note: when Sonocaddie has the course information stored, and you go to the "SCORECARD" screen during the round, the "Par" field will automatically show the par for the hole you are playing.

PRO

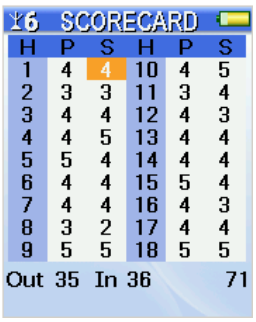
H = Hole
P = Par
S = Score
Pt = Putt
Fw = Fairway
Sd = Sand



Important!
To have **GIR** analysis**,** Par number, Score and number of Putt are required to input.
To have **Sand Save** analysis, input "Y (yes)" or "N (no)" on "**Sd**" space, and it will automatically calculate according to your scores.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Use 5-way key left or right to select the item which you want to change. Up and down to enter your scores. After input the 1~9 holes scores, please use 5-way key to go to next 9 holes. Press 'Esc' button to go back to the previous page and the scores will be saved automatically. Press "**ANALYSIS**" (right soft key) to view compiled statistics and the scores for that round.



NORMAL
H = Hole
P = Par (unchangeable)
S = Score

NOTE: When using "NORMAL" scorecard, there is NO "ANALYSIS" function available.

Use the up and down 5-way key to choose the hole number and then use the left or right 5-way key to enter your scores. Press the 'Esc' key to go back to the previous page and the scores will be saved automatically.

5.11.1 Enter Scores

Select the course to play, press "Scorecard button" during the game, and enter scores directly.

5.11.2 Review Scorecard and View Analysis

Sonocaddie can save scores for up to 100 rounds. To view prior scores, go to "SCORECARD" from the "MAIN" menu and "SELECT" one course. With this feature you can review previous scores, analysis and also edit them.

Important!
Scorecard's scores will be saved for that course until the user clears the scores or deletes the course.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Appendices

A. Specification

- **Size**
  - H 108mm×W 53.5mm×T 28.4mm (H 4.3"×W 2.3"×T 1.1")
- **Weight**
  - 140g (4.9 ounces)
- **Screen**
  - 2.2" high-resolution color LCD w/ Backlight
- **Operating temperature**
  - Maximum 70 º C / 158 º F
  - Minimum -5 º C / 23 º F
- **Storage**
  - Course: 30
  - Scorecard: 100
  - Track: 100
- **Battery**
  - Rechargeable battery
  - 15 hours in normal operation (may be different by the frequency of backlight on)
  - Battery charging time: 8 hours in operation mode, 5 hours in power-off mode
- **Acquisition Rate**
  - Cold start: Approx 5~10 minutes
- **Accuracy**
  - 3 Meters CEP (80%), 7 Meters CEP(90%) horizontal, SA off

- **Built-in GPS Receiver**

- **Built-in High Sensitivity GPS Antenna**

- **Waterproof, IPX6**

- **Membership is optional - you can self-map a course any time, but note that for full color course layout, Sonocaddie membership is required.**

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

B. System Requirement

- Windows 2000/XP/Vista
- CD-ROM
- 512 MB RAM (XP)、1 GB RAM (Vista) or higher
- 12 MB or more hard disk space

(Computer access not required when self-mapping)

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

C. Description Abbreviations

Lat = Latitude
Lon = Longitude
DOP = Dilution of Precision
EPE = Estimated Position Error

P = Par
S = Score
H = Hole
Hcp = Handicap
Pt = Putt
Fw = Fairway
Sd = Sand
GIR = Green in Regulation

B/BK = Back
F/FT= Front
CT = Centre
YD = Yard
M = Meter
ML = Mile
KM = Kilometer
ESC = Escape/ Previous page

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

D. FAQs

Q1. What do I do when my Sonocaddie is not detecting a signal?

A. Your Sonocaddie uses the global satellite positioning system, (GPS) and works best in wide, open spaces, regardless of weather. In order to receive GPS signals you must be in an open sky area, away from buildings, trees cliffs, etc. The first time you start Sonocaddie in a new area it may take up to 10~15 min. to receive sufficient satellite signals. You may monitor GPS signal reception on the 'GPS Status' screen. Once you receive 6 or more stable satellite signals Sonocaddie will provide very good accuracy.

Otherwise it won't receive GPS signal and will show nothing on the display. After turn-on, there should be a number on the upper-left corner of the screen, which means the number of satellites received. If showing "X", it means no signal.

If you are on the course, all distance numbers will automatically show on the screen. However the limit of displayed number is set to 999 yards. Therefore any distance beyond 999 yard will show 999 only. Besides, if the unit shows " ーー " when the satellite is available, it means that the distance is within 0~5 yards.

Q2. How can I track my driving distance?

A. Sonocaddie uses the global positioning satellite system (GPS). Simply press a button to record the beginning coordinates of your shot and the end coordinates of your shot and Sonocaddie will accurately calculate the shot distance. Please consult the user guide for more details.

Q3. Can I connect my Sonocaddie to other computer devices?

A. Apart from the computer systems approved by Sonocaddie, we do not provide any assurances, and advise against attempting to connect it to any non-approved devices.

Q4. Why is the distance of the course marker different from the distance measured by Sonocaddie?

A. 1. First, please make sure that the distance unit either in Sonocaddie or the course is the same (i.e. "YARDS" vs. "METERS"). If they are different, please go to 'Settings' in main menu and select "Yard" or "Meter" as the right unit.

2. Some courses measure the distances by using laser equipment. If the Green and Tee box are not at the same horizontal level, the yardage numbers could be different from the one of Sonocaddie. Most Golf GPS devices measure the distance only in horizontal level, which is more useful for golfers than straight-line of laser unit.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

3. However, some courses measure the distance from tee box to the green along the middle line of fairway. For example, the distance on the tee mark or scorecard shows 410 yards, but Sonocaddie only shows 380 yards. Please see figure below.

Q.5 Will I lose my data when the power goes off on my Sonocaddie?

A. The data you store in your Sonocaddie will never be lost unless you edit or erase the data on purpose.

Q6. Why are the distances shown on Sonocaddie incorrect for each hole on this course?

A. Please check the GPS reception on the GPS Status screen at the time to be sure you have at least 6 stable satellite signals. Also check the Settings menu (Wrench icon) to be sure the distance units (yard or meter) are correct.

In addition, the distance in GPS device is not related with the locations of tee boxes-The distance is calculated based on the difference between the apparent position and the known position. The apparent position is the moveable location of the GPS device which receives the signal. The known position is the position of the target or reference point.

The known position is fixed and is the coordinates, such as bunker and green, downloaded from the database of website. Therefore when you stand by the tee box (apparent position of GPS device you carry), the unit will calculate the distance between you and the green (known position).

Q7. Can I connect Sonocaddie to Mac OS?

Sonocaddie is not compatible with Apple Mac OS systems including X Leopard and Windows XP under Virtual PC in the short term.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

Regulatory Agency Compliance

Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received,
including interference that may cause undesired operation.

NOTICE The FCC warns that user modifications of this device without the express approval of Sonostar Inc. could void the user's authority to operate the device.

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.

V.3.0.0.7_E

This document is the property of Sonostar Inc. Any unauthorized reproduction is prohibited.